

FIG. 1 WIRELESS ACCESS REFERENCE MODEL

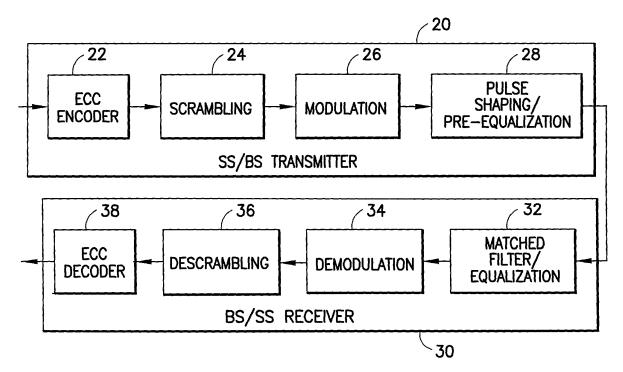
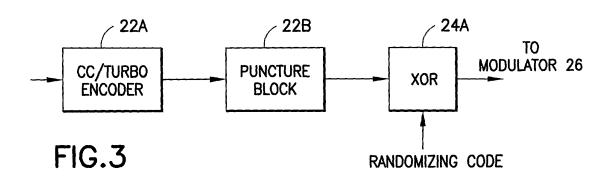


FIG.2 PHY REFERENCE MODEL SHOWING DATA FLOW

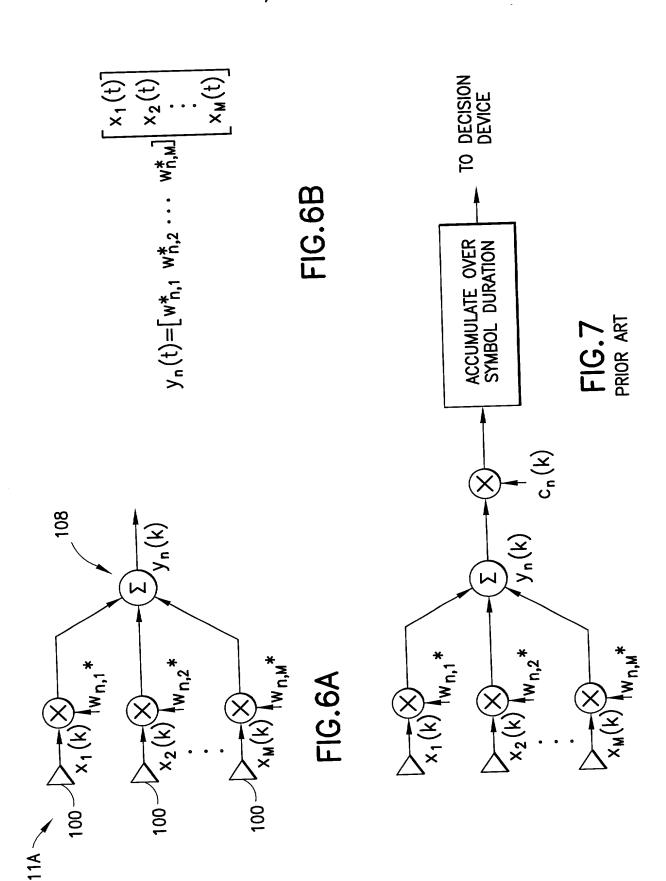


	TA II IOOM	MODILI ATION AND CHANNEL CODING	9
PARAMETER	QPSK w/R=4/5	16-QAM w/R=4/5 CODING	64-QAM w/k=4/5 CODING
	(1.6 BITS/SYM)	(3.2 BITS/SYM)	(4.8 BITS/SYM)
DANIOWITH	3.5 MHz	3.5 MHz	3.5 MHz
KF CHANNEL DANDWIDTH	2 SE Mons	2.56 Mcps	2.56 Mcps
CHIP RATE	2011 2017		Way and
COMMINICATION CHANNEL BANDWIDTH	4.096 Mbps	8.192 Mbps	12.288 Mups
	4 096 Mbps	8.192 Mbps	12.288 Mbps
PEAK DATA RATE			0 4 1 0 0 0 ·
COMA CHANNEL BANDWIDTH (SF=1)	4.096 Mbps	8.192 Mbps	12.288 Mbps
COMPA CITATION CE-16)	256 kbps	512 kbps	768 kbps
CDMA CHANNEL BANDWIDIN (31-13)	-		sudy 30
COMA CHANNEL BANDWIDTH (SF=128)	32 kbps	64 KDPS	SACY OF
OCTOAL MOITS	1.17 bps/Hz	2.34 bps/Hz	3.511 bps/Hz
MODULATION FACTOR			

FIG.4 HYPOTHETICAL PARAMETERS FOR A 3.5 MHZ RF CHANNELIZATION

	MSAD	*	16	16 QAM	64	64 QAM
NUMBER OF ELEMENTS	AGGREGATE CAPACITY (Mbps)	MODULATION FACTOR	AGGREGATE CAPACITY (Mbps)	MODULATION FACTOR	AGGREGATE CAPACITY (Mbps)	MODULATION FACTOR
-	4.096	1.17	8.192	2.34	12.288	3.511
2	8.192	2.34	16.384	4.68	24.5/6	770.7
4	16.384	4.68	32.768	9.36	49.152	14.044
ω	32.768	9.36	65.536	18.72	98.304	28.088
16	65.536	18.72	131.072	37.44	196.608	56.176

FIG.5 AGGREGATE CAPACITY AND MODULATION FACTORS VERSUS MODULATION TYPE AND ARRAY SIZE



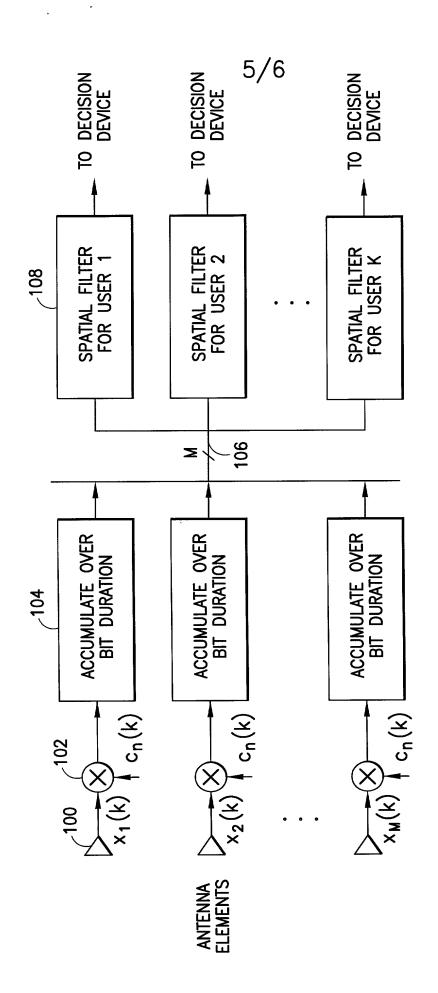


FIG.8

